

Response to Office Action of 09/22/2005
Attorney Docket No. 1036-02-PA-T

Amendments to the Specification:

Please amend the specification as follows:

Please replace the paragraph beginning at page 7, line 1 with the following rewritten paragraph:

In the embodiments where the pressure gauge includes a shut-off valve 23 operably associated with the second inflation lumen, inflation of the second balloon 20 may be terminated when the first balloon 10 makes contact with the vessel wall. The gauge may be reset to measure the pressure within the first balloon 10 and the atmosphere, so that P1/P2 reflects the resistance generated by the vessel wall. The less compliant the vessel, e.g., artery with atherosclerosis plaque, the higher the resistance of the vessel wall. In this way, the devices provide the physician information on (1) when the balloon occluder device contacts the vessel wall, (2) the effective luminal diameter of the vessel, and (3) force exerted on the vessel wall. The gauge 50 may advantageously include a pressure limiter 51 that limits the pressure in the first balloon 10 from exceeding a set threshold, thereby avoiding over-inflation of the first balloon 10 inside the vessel or body cavity. The pressure limiter 51 may sound an alarm (not shown) when the pressure in the first balloon 10 exceeds a set threshold.